

REMARKS

Claims 39-61 are pending in the application, with claims 39, 43, 50 and 54 being independent. Claims 39, 50 and 54 have been amended and claims 59-61 have been added. Support for the amendments may be found in the application at, for example, Fig. 1A. No new matter has been introduced.

Claims 55-57 have been renumbered as 56-58 in view of the Examiner's objections.

Claims 39-42 and 50-58 have been rejected as being anticipated by Sanchez (U.S. Patent No. 5,583,067). Applicant requests reconsideration and withdrawal of this rejection because Sanchez does not describe or suggest first and second pinning regions formed in the semiconductor substrate in a vicinity of a boundary between the channel region and one of the source and drain regions, as recited in each of independent claims 39, 50 and 54.

The rejection asserts that the P-doped regions 42a and 42b correspond to the recited first and second pinning regions. However, this cannot be the case, since, as shown in Figs. 4f and 4g of Sanchez, the P-doped regions 42a and 42b are located on opposite sides of the channel region. As such, they cannot be said to be located "in a vicinity of a boundary between said channel region and ~~at least~~ one of the source and drain regions," as recited in each of amended claims 39, 50 and 54. In particular, while one of the P-doped regions is located in the vicinity of a first boundary between the channel region and the source region, the other of the P-doped regions is located in the vicinity of a second boundary between the channel region and the drain region.

Accordingly, for at least these reasons, the rejection should be withdrawn.

Claim 43 has been rejected as being anticipated by Shimizu (U.S. Patent No. 5,217,910). Applicant requests reconsideration and withdrawal of this rejection because Shimizu does not describe or suggest pinning regions having conductivity types opposite to that of the source and drain regions, as recited in claim 43. The rejection asserts that the device of Fig. 9F includes p-doped source and drain regions, that the n-doped regions 31 and 38 of Fig. 9F correspond to the recited pinning regions, and that they have opposite polarities to the source and drain regions. However, this is not the case. In particular, as shown in Fig. 9I and discussed at col. 10, lines 48-

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55, the regions 31 and 38 are part of the source and drain regions 42 and 44, and do not have opposite polarities to those regions (i.e., the regions 31, 38, 42 and 44 are all n-type regions).

Accordingly, for at least these reasons, the rejection should be withdrawn.

Claims 44-49 have been rejected as being unpatentable over Shimizu in view of Sanchez.

Applicant requests reconsideration and withdrawal of this rejection because Sanchez does not remedy the failure of Shimizu to describe or suggest the subject matter of claim 43.

Applicant submits that all claims are in condition for allowance.

Enclosed is a \$1390.00 check for the Request for Continued Examination fee (\$790), additional claims fee (\$150.00) and a two-month extension of time fee (\$450). Please apply any other charges or credits to deposit account 06-1050.

Respectfully submitted,

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